

For each question, you need to find the answer and show your work. Each problem is worth 3 points: one for the correct answer and two for showing your work. For some problems, you may just need to write out how you know you have the correct answer.

Use the table below to answer questions 1 – 3.

x	y
2	7
-3	3
6	2
2	9

1. What is the domain of the set?
2. What is the range of the set?
3. Does the table represent a function? How do you know?

Use the table below to answer questions 4 – 6.

x	y
-4	-1
7	4
-6	3
9	-4

4. What is the domain of the set?
5. What is the range of the set?
6. Does the table represent a function? How do you know?

Use the table below for questions 7 – 9.

x	y
0	-6
-5	4
3	5
1	4

7. What is the domain of the set?

8. What is the range of the set?

9. Does the table represent a function? How do you know?

10. List a set of four ordered pairs (any ordered pairs) so that the set represents a function.

11. Sketch two graphs in the space below so that the first graph represents a function and the second graph does not. How do you know each answer is correct?

Open-Ended Question: Answer this question on this or a separate sheet of paper. Make sure as you answer the open-ended question that you show your work AND explain how you know you are doing the correct work. YOU MUST EXPLAIN WHAT YOU ARE DOING!!!

Use the data in the table to create a graph (use graph paper) and answer the questions.

<i>Age (years)</i>	<i>Height (inches)</i>
4	37
5	40
6	42
7	44
8	46
9	49

- A. Is the relation a function? How do you know?
- B. Would it make sense to connect the points with a line? Explain your answer.